

1497 Rec'd PCT/PTO 13 FEB 2006

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| FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005) | | ATTORNEY'S DOCKET NUMBER 36981 |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/568202 |
| INTERNATIONAL APPLICATION NO. PCT/AU2004/001075 | INTERNATIONAL FILING DATE 11 August 2004 | PRIORITY DATE CLAIMED 11 August 2003 |
| TITLE OF INVENTION DETECTION OF WAKE VORTICES AND THE LIKE IN THE LOWER ATMOSPHERE | | |
| APPLICANT(S) FOR DO/EO/US MARTIN, Andrew Louis | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). 11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409). 12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210). <p>Items 13 to 23 below concern document(s) or information included:</p> <ol style="list-style-type: none"> 13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 15. <input checked="" type="checkbox"/> A FIRST preliminary amendment. 16. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 17. <input type="checkbox"/> A substitute specification. 18. <input type="checkbox"/> A power of attorney and/or change of address letter. 19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 20. <input checked="" type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 22. <input checked="" type="checkbox"/> Express Mail Label No. EV 760671617 US | | |

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| U.S. APPLICATION NO (if known, see 37 CFR 1.5) 10/568202 | | INTERNATIONAL APPLICATION NO. PCT/AU2004/001075 | | ATTORNEY'S DOCKET NUMBER 36981 | |
| 23. Other items or information: This is a National Phase Application pursuant to 37 C.F.R. Section 371 of International Application No. PCT/AU2004/001075, filed 11 February 2006, claiming priority of Australian Application No. 2003904198 filed 11 August 2003, the disclosure of the International application and the Australian application being incorporated by reference. | | | | | |
| The following fees have been submitted: | | | | CALCULATIONS PTO USE | |
| 24. <input checked="" type="checkbox"/> Basic national fee \$300 | | | | \$ | \$300.00 |
| 25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 All other situations. \$200 | | | | \$ | \$200.00 |
| 26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . . \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$400 All other situations. \$500 | | | | \$ | \$400.00 |
| TOTAL OF 24, 25 and 26 = | | | | \$ | \$900.00 |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole) | RATE | | |
| - 100 = | 0 /50 = | 0 | x \$250.00 | \$ | \$0.00 |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | | | \$ | \$130.00 |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
| Total claims | 19 - 20 = | 0 | x \$50.00 | \$ | \$0.00 |
| Independent claims | 5 - 3 = | 2 | x \$200.00 | \$ | \$400.00 |
| MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00 | | | | \$ | \$0.00 |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ | \$1,430.00 |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | \$ | \$715.00 |
| SUBTOTAL = | | | | \$ | \$715.00 |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | \$ | \$0.00 |
| TOTAL NATIONAL FEE = | | | | \$ | \$715.00 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property + | | | | \$ | \$0.00 |
| TOTAL FEES ENCLOSED = | | | | \$ | \$715.00 |
| | | | | Amount to be | \$ |
| | | | | Amount to be | \$ |

10/568202

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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- a. ☒ A check in the amount of \$ \$715.00 to cover the above fees. **AP20 Rec'd PCT/PTO 13 FEB 2006**
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-0522. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Thomas H. Van Hoozer
HOVEY WILLIAMS LLP
2405 Grand Boulevard, Suite 400
Kansas City, MO 64108
816/474-9050


SIGNATURE

Thomas H. Van Hoozer

NAME

32,761

REGISTRATION NUMBER

February 13, 2006

DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|---------------------------------------|---|---------------------|
| Application of: |) | Docket No.: 36981 |
| |) | |
| MARTIN, Andrew Louis |) | Group Art: |
| |) | |
| Serial No.: |) | Examiner: |
| |) | |
| Filed: |) | Confirmation No.: |
| |) | |
| Title: DETECTION OF WAKE VORTICES AND |) | |
| THE LIKE IN THE LOWER ATMOSPHERE |) | Customer No.: 23589 |

Mail Stop PCT
Commissioner for Patents
Post Office Box 1450
Alexandria, Virginia 22313-1450

EXPRESS MAIL TRANSMITTAL

Transmitted herewith is/are: Express Mail Transmittal (1 page); Transmittal Letter Under 35 U.S.C. 371 (3 pages); PCT Published International Application WO 2005/015259 A1 corresponding to Australian Application 2003904198 including Abstract, Specification and Claims (25 pages); Drawings (8 pages); International Search Report (2 pages); Information Disclosure Statement (1 page); PTO Form 1449 (1 page) and two (2) references; A First Preliminary Amendment (18 pages); Second Copy of PCT Published International Application WO 2005/015259 A1; Check for \$715.00 (\$150 Filing Fee, \$100 Examination Fee, \$200 Search Fee; \$65 surcharge; \$200.00 excess claim fee); and Return Postcard.

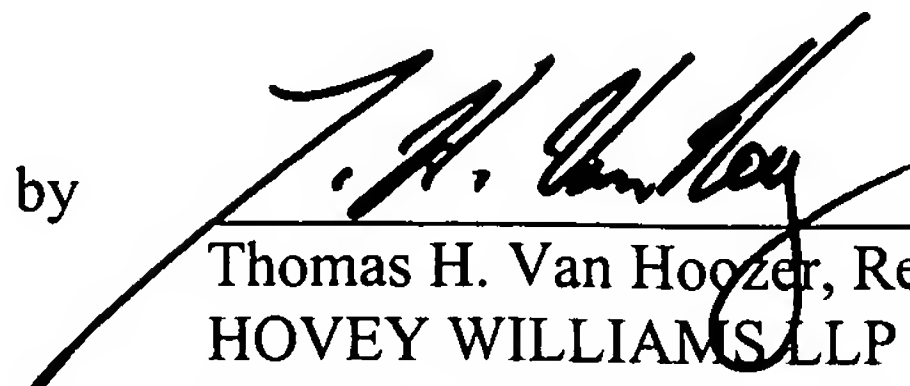
EV 760671617 US
("Express Mail" Mailing Label Number)

Respectfully submitted,

HOVEY WILLIAMS LLP

Dated: February 13, 2006

by


Thomas H. Van Hoozer, Reg. No. 32,761
HOVEY WILLIAMS LLP
2405 Grand Boulevard, Suite 400
Kansas City, Missouri 64108
(816) 474-9050

ATTORNEYS FOR APPLICANT